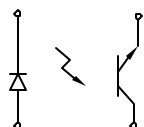
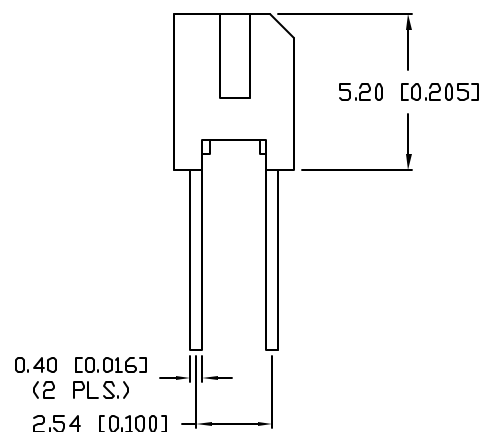
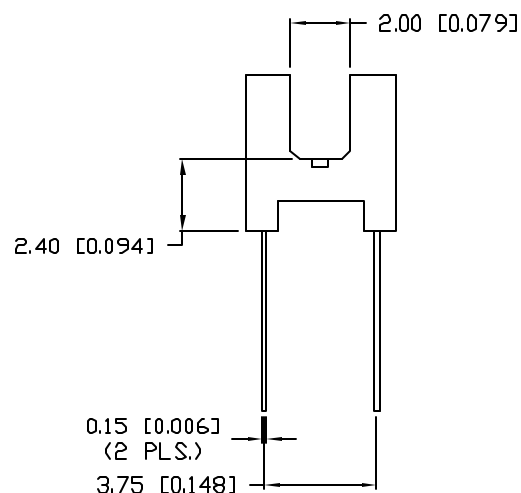
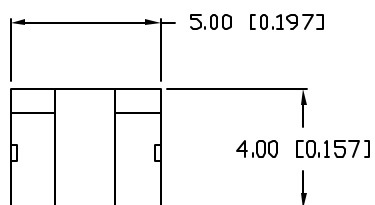


UNCONTROLLED DOCUMENT



TOP VIEW POLARITY

PART NUMBER
OED-SI2034

REV.

ELECTRO-OPTICAL CHARACTERISTICS T = 25°C

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
INPUT:						
FORWARD VOLTAGE	V _f		1.2	1.4	V	I _f = 30 mA
REVERSE CURRENT	I _r			10	μA	V _r = 5V
OUTPUT:						
COLLECTOR DARK CURRENT	I _{ceo}			0.1	μA	V _{ce} = 10V I _f = 20 mA
COLLECTOR LIGHT CURRENT	I _L	0.25		1.2	mA	V _{ce} = 5V I _f = 20 mA
C/E SATURATION VOLTAGE	V _{ce(sat)}			0.4	V	I _f = 30 mA I _c = 0.1 mA
SWITCHING SPEEDS:						
RISE TIME	T _r		50		μs	V _{ce} = 5V I _c = 2 mA
FALLING TIME	T _f		50		μs	R _L = 100 Ω

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	SYMBOL	MAX	UNITS
INPUT:			
REVERSE VOLTAGE	V _r	5	V
POWER DISSIPATION	P _d	75	mW
FORWARD CURRENT	I _f	50	mA
OUTPUT:			
COLLECTOR POWER DISSIPATION	P _c	75	mW
COLLECTOR CURRENT	I _c	20	mA
C-E VOLTAGE	V _{ceo}	30	V
E-C VOLTAGE	V _{eco}	5	V
OPERATING TEMP.	T _{opr.}	- 20 TO + 85	°C
STORAGE TEMP.	T _{stg.}	- 30 TO + 85	°C
SOLDERING TEMP.	T _{sol.}	+ 240	°C
2.0mm FROM BODY	dist.		5 SEC. MAX

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005), LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN.= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER

OED-SI2034

PHOTO INTERRUPTER.

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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DATE: 11.28.01

PAGE: 1 OF 1

SCALE: N/A

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